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SEQUENCE LISTING

<110> EVOTEC NEUROSCIENCES

<120> DIAGNOSTIC AND THERAPEUTIC USE OF MAL2 GENE AND PROTEIN
FOR NEURODEGENERATIVE DISEASES

<130> 043323wo Me/FM

<140> PCT/EP2005/050850

<141> 2005-02-28

<150> US 60/549,147

<151> 2004-03-03

<160> 16

<170> PatentIn Ver. 2.1

<210> 1

<211> 176

<212> PRT

<213> Homo sapiens

<400> 1

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Arg Thr Tyr Ser Gly Ala Phe Val Cys Leu Glu Ile Leu Phe Gly Gly
      35              40              45

Leu Val Trp Ile Leu Val Ala Ser Ser Asn Val Pro Leu Pro Leu Leu
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Gln Gly Trp Val Met Phe Val Ser Val Thr Ala Phe Phe Phe Ser Leu
  65              70              75              80

Leu Phe Leu Gly Met Phe Leu Ser Gly Met Val Ala Gln Ile Asp Ala
      85              90              95

Asn Trp Asn Phe Leu Asp Phe Ala Tyr His Phe Thr Val Phe Val Phe
      100              105              110

Tyr Phe Gly Ala Phe Leu Leu Glu Ala Ala Ala Thr Ser Leu His Asp
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Leu His Cys Asn Thr Thr Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn
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Gln Tyr Asn Ile Asn Val Ala Ala Ser Ile Phe Ala Phe Met Thr Thr
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Ala Cys Tyr Gly Cys Ser Leu Gly Leu Ala Leu Arg Arg Trp Arg Pro
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<210> 2
<211> 2808
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nucleotide
sequence of the human MAL2 cDNA

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<210> 3
<211> 270
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nucleotide
sequence of the 270 bp MAL2 cDNA fragment

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<400> 3
tgggtggcact tttgtaaaca gattgcttct agattgttac aaaccaagcc taagacacat 60
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cagttgaaca aaaattatgg catttaagaa tttaacatgt cttagctgta aaaatgagaa 180
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gttatgtctc taataaagta ttcatttgat 270
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<210> 4
<211> 531
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:coding sequence
of the human MAL2 gene

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<400> 4
atgtcggccg gcggagcgtc agtcccgcgc ccccgaacc ccgccgtgtc cttcccgcgc 60
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<210> 5
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for the
human MAL2 gene

<400> 5

acctgtagag atcctcgtca tgg 23

<210> 6
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for the
human MAL2 gene

<400> 6
tggcctcact cttacttgtc ctt 23

<210> 7
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for the
human cyclophilin B gene

<400> 7
actgaagcac tacgggcctg 20

<210> 8
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for the
human cyclophilin B gene

<400> 8
agccgttggt gtctttgcc 19

<210> 9
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<212> DNA
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<220>
<223> Description of Artificial Sequence:primer for the
human ribosomal protein S9 gene

<400> 9
ggtcaaattt accctggcca 20

<210> 10

<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for the
human ribosomal protein S9 gene

<400> 10
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<210> 11
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<212> DNA
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<220>
<223> Description of Artificial Sequence:primer for the
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<400> 11
tggaacgggtg aaggtgaca 19

<210> 12
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for the
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<400> 12
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<210> 13
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<220>
<223> Description of Artificial Sequence:primer for the
human GAPDH gene

<400> 13
cgtcatgggt gtgaaccatg 20

<210> 14
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer for the
human GAPDH gene

<400> 14

gctaagcagt tggtaggtgca g

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<210> 15

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer for the
human transferrin receptor TRR gene

<400> 15

gtcgctgggc agttcgatg t

21

<210> 16

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer for the
human transferrin receptor TRR gene

<400> 16

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23